

AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently amended) A heated cylinder comprising:
a cylinder sleeve having at least one inner sleeve layer and one outer sleeve layer,
wherein the at least one inner sleeve layer and one outer sleeve layer are separated from
each other by a hollow space into which ~~[[the]]~~ a hot fluid ~~can be~~ is introduced.
2. (Previously presented) The heated cylinder according to claim 1, wherein
the inner sleeve layer is thicker than the outer sleeve layer.
3. (Previously presented) The heated cylinder according to claim 1, wherein
the outer sleeve layer has a wall thickness from 8 to 15 mm.
4. (Currently amended) The heated cylinder according to claim 1, wherein the hot
fluid is steam and the steam in the hollow space between the two sleeve layers has a positive
pressure of between 2 and 13 bar.
5. (Previously presented) The heated cylinder according to claim 1, further
comprising:
a rib structure selected from at least one of ribs extending in axial or circumferential
direction or having a helical shape, a honeycomb structure, or a lattice structure,
and wherein the ribs are formed on to the inner surface of the outer sleeve layer facing the
hollow space.
6. (Previously presented) The heated cylinder according to claim 5, wherein
the rib, honeycomb or lattice structure is comprised of a material with a high thermal
conductivity.

7. *(Previously presented)* The heated cylinder according to claim 5, wherein the surface area of the rib, honeycomb or lattice structure is ten to one hundred times greater than the inner surface of the outer sleeve layer.

8. *(Previously presented)* The heated cylinder according to claim 1, wherein the outer sleeve layer comprises a material with a high thermal conductivity.

9. *(Previously presented)* The heated cylinder according to claim 8, wherein the outer sleeve layer comprises boiler steel.

10. *(Previously presented)* The heated cylinder according to claim 1, wherein the inner sleeve layer has a high modulus of elasticity.

11. *(Currently amended)* The heated cylinder according to claim 1, ~~wherein the~~ further comprising pipes that are located between the inner and the outer sleeve layer and are connected via rotary bushings to a fixed steam supply or an exhaust steam and condensed water tank.

12. *(Previously presented)* The heated cylinder according to claim 1, wherein the inner sleeve layer comprises a rigid core which absorbs loads acting on the outer sleeve layer.

13. *(Previously presented)* The heated cylinder according to claim 1, wherein the inner and the outer sleeve layer are connected by at least one of bars, pins, screws, and rivets.

14. *(Previously presented)* The heated cylinder according to claim 1, further comprising platelets attached between the inner and the outer sleeve layer.

15. *(Previously presented)* The heated cylinder according to claim 14, wherein the platelets are arranged parallel to each other, crosswise, helically, or in a honeycomb or lattice structure.

16. (Previously presented) The heated cylinder according to claim 14, wherein the platelets have a flat or a profiled surface.

17. (Previously presented) The heated cylinder according to claim 14, wherein the platelets become wider in the direction of the outer sleeve layer.

18. (Currently amended) The heated cylinder according to claim 5, wherein the surface of the rib, honeycomb or lattice structure on the inner side of the outer sleeve layer at the circumferential end ~~becomes~~ is smaller near the end faces of the cylinder as compared to a middle region between the end faces.

19. (Currently amended) A heated cylinder for at least one of producing and refining a paper web, cardboard web, tissue web or some other fiber web, comprising:

one outer cylinder sleeve[[,]];

a hot fluid introduced into the one outer cylinder sleeve to flow along an inner surface of the one outer cylinder sleeve; and

wherein the outer cylinder sleeve is supported by struts located inside the heated cylinder that are arranged to support the outer cylinder sleeve.

20. (Previously presented) The heated cylinder according to claim 6, wherein the material having high thermal conductivity is selected from copper or aluminum.

21. (Previously presented) The heated cylinder according to claim 15, wherein the platelets are further arranged in an axial direction of the cylinder.

22. (Previously presented) A machine for producing and/or refining a paper web, cardboard web, tissue web or some other fiber web, comprising the heated cylinder according to claim 1.

23. *(Previously presented)* A machine for producing and/or refining a paper web, cardboard web, tissue web or some other fiber web, comprising the heated cylinder according to claim 19.

24. *(New)* The heated cylinder according to claim 1, further comprising hot fluid flowing between the at least one inner sleeve layer and the outer sleeve layer, whereby heat is radiated outwardly.